
**Building construction machinery and
equipment — Pedestrian-controlled
vibratory (percussion) rammers —
Terminology and commercial
specifications**

*Machines et matériels pour la construction des bâtiments — Dames
vibrantes (à percussion) guidées à la main — Terminologie et
spécifications commerciales*



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Foreword

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Introduction

The purpose of this International Standard is to define the main terms and commercial specifications for pedestrian-controlled vibratory (percussion) rammers, used for material (primarily soil) compaction. These machines are typically used in the building trades to improve soil density characteristics.

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Building construction machinery and equipment — Pedestrian-controlled vibratory (percussion) rammers — Terminology and commercial specifications

1 Scope

This International Standard provides a terminology and sets out commercial specifications for pedestrian-controlled vibratory (percussion) rammers used in building construction.

It is not applicable to rammers that compact by use of a tamping action of the foot-plate (shoe), nor is it applicable to explosion-type rammers.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1

pedestrian-controlled vibratory rammer
pedestrian-controlled percussion rammer

machine designed for the purpose of improving material (primarily soil) density and stiffness through use of a displacement-driven foot-plate for compaction

See Figure 1.

NOTE The machine compacts material through a vibrating action performed by the foot-plate.

2.2

prime mover

driving energy source for the percussion mechanism

See Figure 1.

NOTE The following prime mover types are used for vibratory rammers: combustion engine (see Figure 2); hydraulic (see Figure 3).

2.3

vibratory mechanism

system of components that translates the prime mover energy to the foot-plate

2.4

foot-plate

shoe

machine element that contacts the material being compacted

See Figure 1.

NOTE Foot-plate materials include steel, wood and polymer blends.